## CLAIMS

- 1. Austenitic nickel-chromium-molybdenum alloys with additions of silicon, characterized
- by alloy components (in mass percentages):

10

15

20

25

```
Cr
       18 - 22 %
       6 - 10 %
Mo
Si
       0.6 - 1.7 %
C
       0.002 - 0.05 %
Fe
       1 - 5 %
Mn
       0.05 - 0.5 %
Al
       0.1 - 0.5 %
Ti
       0.1 - 0.5 %
Mg
       0.005 - 0.05 %
Ca
       0.001 - 0.01 %
V
       max. 0.5 %
P
       max. 0.02 %
S
       max. 0.01 %
В
       0.001 - 0.01 %
Cu
       max. 0.5 %
       max 1 %
Co
       max. 0.5 %
Nb
```

Hf and/or Y and/or Zr and/or rare earth elements - 0.02 - 0.5% the remainder being nickel and impurities caused by the melting process, whereby the total amount of additions in Nb + Al + Ti do not exceed 1 %.

- 2. Alloy as in claim 1, characterized by alloy components (in mass percentages):
- Cr 18 - 20 % 8 - 9.0 % Mo 30 Si 0.7 - 1.1 % C 0.002 - 0.15 % Fe 2.5 - 3.5 % Mn 0.05 - 0.1 % 0.1 - 0.3 % Al 35 Ti 0.1 - 0.4 % 0.005 - 0.15 % Mg

Ca	0.001 - 0.005 %
V	max. 0.1 %
P	max. 0.002 %
S	max. 0.001 %
В	0.001 - 0.001 %
Cu	max 0.5 %

max. 0.5 %

Nb

Hf and/or Y and/or Zr and/or rare earth elements - 0.03 - 0.06% the remainder being nickel and impurities caused by the melting process.

10

5

- 3. Alloy as in claim 1, characterized by a molybdenum content between 6.5 and 9.5 %
- 4. Alloy as in claim 1, characterized by a silicon content between 0.6 and 1.3 %
- 15 5. Utilization of the alloy as in one of the claims 1 to 4, for the production of pipes, sheet metal, band material, foils, wires as well as of items made of these semi-products.
  - 6. Utilization of the alloy according to one of the claims 1 to 4 for the production of composite pipes.

20

7. Utilization of the alloy according to the invention as in one of the claims 1 to 4 as corrosion protection in form of applied welding or plating.